BAYOMETRIC

Integrated Biometrics Columbo

FBI PIV FAP 30 SINGLE-FINGER SCANNER

PRODUCT DESCRIPTION

Integrated Biometrics Columbo is an FBI appendix F, FAP 30 certified single fingerprint scanner. The scanner is capable of identification, verification and registration applications. It can be operational as a standalone device, as a peripheral for mobile PCs or as a handheld device. The Columbo is available in 3 variants. It is available as a desktop compatible version, an OEM module and a CNC device.

Columbo is compatible with systems working on Windows, Linux or Android OS. The scanner comes with a USB 2.0 interface for easy integration and this facilitates speeds up to 480 Mbps for data transfer. The device produces 500 PPI resolution images with a size of 500 x 400 pixels compliant with FBI standards.

Columbo features a durable and lightweight build. It weighs under 170 grams and is resistant to shock and other mechanical vibrations. The scanner is equipped with the IB LES technology that enables it to capture images even under direct sunlight. Dryness or moisture on fingers while scanning does not affect the quality of the images captured. Furthermore, the Columbo does not use membranes that need to be replaced periodically while scanning.

APPLICATIONS

- Standalone fingerprint scanner
- Embedded version for mobile applications

KEY FEATURES

- FBI PIV FAP 30 certified
- Easy to integrate
- No membranes to replace
- Operates in direct sunlight
- Excellent with dry and dirty fingers
- Durable and shock resistant
- Requires no cleaning
- Compatible with Windows 7, Windows 8.X, Windows Server, Windows Mobile 6.5, Linux, Android 4.0 (or higher)

TECHNICAL SPECIFICATIONS

Resolution	500 PPI
Image size	400 x 500 pixels
Gray scale	256 grayscale dynamic range
Effective sensing area	0.8” x 1.0” / 20.32 mm x 25.4 mm
Interface	USB 2.0
USB cert spec	USB-IF USB.ORG
USB level	4.40V – 5.25V
Product weight	170g / 6 oz. (Columbo OEM: <70g)
Supp. image formats	RAW, JPEG2000, BMP, PNG, WSQ
Operating temp	-10°C ~ +55°C / 14°F ~ 131°F
Storage temp	-30°C ~ +60°C / -22°F ~ 140°F
Hazardous material	RoHS Directive 2002/95/EC
Humidity	30~85% RH < 40°C / 104°F (Non-condensing)
Ingress protection	IP54 Case Bezel to Film
FCC/CE conformance	FCC Part 15 (per ANSI C62.4:2003) Class A, CSA ICES-003 Class A, CE Emissions: EN 55022:2006 Class A, CE Immunity EN 55024:1998/A1:2001/A2:2003, IEC 61000-4-2

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KEY SPECIFICATIONS

- Resolution: 500 ppi
- Image capture area (Platen size): 20 x 25 mm (0.8" x 1.0")
- Image size: 400 x 500 pixels
- Sensor type: Hybrid (optical and capacitive)
- Device size: Desktop reader: 66 x 75 x 48 mm (2.6" x 3.0" x 1.9") & OEM module without circuit board: 47 x 39 x 28 mm (1.8" x 1.5" x 1.1")

CONTACT

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LINKS

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Scanner assembly dimensions	66mm x 75mm x 48mm / 2.60” x 2.95” x 1.89 (Columbo OEM: 46.5mm x 39mm x 27.5mm)
Power consumption	DC Current: Standby <50mA/ Full Scanning <115mA
Air discharge/contact discharge	In compliance with IEC 61000-4-2
API interface	Single-finger Image Multi-device / Multi-thread support
Surface resistance	MIL-C-675c 4.5010, MIL-STD-810F
Surface durability	Ammonia, IPA, Methanol, Soaps/ Detergents, Salt Water
Vibration test	per MIL-STD-810F (Method 514.5), Category 24, Fig. 514.5C-17
FBI certification	PIV 071006, FIPS 201, FAP 30 / Certified to Mobile ID Requirements
Operating system support	Windows 7, Windows 8.X, Windows Server, Windows Mobile 6.5, Linux, Android 4.0 (or higher)

ABOUT BAYOMETRIC

Bayometric is a leading global provider of biometric security systems offering core fingerprint identification solutions. Our products and solutions help enterprises, government agencies, custom application developers and system integrators meet their security, identification and access management requirements.